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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/766,412	01/22/2001	Ruowen Ge	1781-0215P	7335
2292 75	90 02/20/2004		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			MOHAMED, ABDEL A	
PO BOX 747 FALLS CHURO	CH, VA 22040-0747	•	ART UNIT PAPER NUMBE	
	o,		1653	
			DATE MAIL ED: 02/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/766,412	GE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Abdel A. Mohamed	1653					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timel the mailing date of this c D (35 U.S <sub>1</sub> C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on 25 Se	eptember 2003.						
☐ This action is <b>FINAL</b> . 2b)☐ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.					
Disposition of Claims							
4) ⊠ Claim(s) 1-10,13-16,19,20,22,23 and 25-28 is/s 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-10, 13-16, 19, 20, 22, 23 and 25-28	vn from consideration.	election requireme	ent.				
Application Papers  9) The specification is objected to by the Examine	r						
10) The drawing(s) filed on is/are: a) acce		Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the Ex	,		, ,				
<i>,</i>	ammor. Note the attached office	, totalon or torm	10 102.				
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive	on No	Stage				
* See the attached detailed Office action for a list		ed.					
Attachment(s)							
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	O-152)				

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## ACKNOWLEDGMENT OF RESPONSE TO ELECTION OF RESTRICTION REQUIREMENT AND THE STATUS OF THE CLAIMS

Applicant's remarks with respect to election of the restriction requirement filed 9/25/03 is acknowledged, considered and entered. In view of Applicant's request claims 1, 9, 10, 15, 22 and 23 have been amended, claims 11, 12, 17, 18, 21 and 24 have been canceled and claims 25-28 have been added. Thus, claims 1-10, 13-16, 19, 20, 22, 23 and 25-28 are now pending in the application. It is noted that Applicant has elected with traverse Group I (previous claims 1-18) along SEO ID NO:30. However, Applicant has regrouped the method for preventing or treating undesired angiogenesis (Group II; previous claims 19-21) and method for preventing or treating primary tumor growth or metastasis of Group III (previous claims 22-24) along with the peptide of Group I (previous claims 1-18) by amending the claims to read as methods for preventing or treating primary tumor growth or metastasis by preventing undesired angiogenesis by administering the compound of Group I. As such, the method of treating tumor growth appears to be a species of the method for preventing undesired angiogenesis. Further, Applicant asserts that it would not be unduly burdensome on the Examiner to examine the related sequences along with the sequence of SEQ ID NO:30. Contrary to Applicant's assertion, the sequences are patentably distinct because they are unrelated sequences and each unrelated sequence is considered a separate and distinct product, therefore, a further restriction is applied to each sequences. Thus, all SEO ID NO's other than SEQ ID NO:30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected invention, there being no allowable generic or linking claim. Hence, the previous election/restriction has been

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modified on the merits of pending claims 1-8, 13, 14, 19, 22 and 25-28, as they read on elected SEQ ID NO:30, follows.

## Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-8, 13, 14, 19, 22 and 25-28, drawn to plasminogen, pharmaceutical composition thereof and to a method for preventing or treating primary tumor growth or metastasis by preventing undesired angiogenesis, classified in classes 530 and 514, subclasses 380, 326, 2 and 13, respectively.
  - II. Claims 1-8, 13, 14, 19, 22 and 25-28, drawn to endostatin, pharmaceutical composition thereof and to a method for preventing or treating primary tumor growth or metastasis by preventing undesired angiogenesis, classified in classes 530 and 514, subclasses 311, 356, 326 and 13, respectively.
  - III. Claims 1-8, 13, 14, 19, 22 and 25-28, drawn to vascular endothelial growth factor (VEGF), pharmaceutical composition thereof and to a method for preventing or treating primary tumor growth or metastasis by preventing undesired angiogenesis, classified in classes 530 and 514, subclasses 326, 399 and 13, respectively.
  - IV. Claims 1-8, 13, 14, 19, 22 and 25-28, drawn to KDR/FLK-1 receptor protein, pharmaceutical composition thereof and to a method for preventing or treating

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primary tumor growth or metastasis by preventing undesired angiogenesis, classified in classes 530 and 514, subclasses 326, 324 and 13, respectively.

The inventions are distinct, each from the other because of the following reasons:

3. Inventions I, II or III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different sources, different preparations, different structures, different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are related as independent compounds/compositions, which are not connected in design, operation or effect. Although, the compositions/compounds of Groups I-IV are used as pharmaceutical formulations for the same method of preventing or treating primary tumor growth or metastasis by preventing undesired angiogenesis, however, the compositions/compounds have different sources, structures resulting in different functions and different effect. The groups require different patent and literature search, and a reference teaching the use of plasminogen which is a plasma glycoprotein synthesized in the liver (See e.g. page 1, last paragraph in the instant specification) as claimed in Group I will not teach Groups II-IV proteins. Further, the proteins of Groups II-IV, each differs in source and structure, wherein the endostatin protein of Group II is identified from a hemangioendothelioma cell line having a 20 kDa C-terminal fragment of collagen XVIII (See e.g., page 2, lines 21-25 in the instant specification), Group III VEGF protein is a potent endothelial specific mitogen (See page 3, lines 1-3 in the instant specification) and Group IV KDR/FLK-1 receptor proteins are expressed in endothelial cells and stimulate endothelial cell proliferation and migration (See e.g., page 2, lines 5-8 in the instant specification). Thus, the

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compounds/compositions as grouped are independent and distinct inventions, which differ, in material make up and composition requiring different reaction conditions. Hence, one does not require the other for ultimate use and as such is capable of separate manufacture, use and sale, and is novel and patentable over each other.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because the searches for individual subject sets are not coextensive, restriction for examination purposes as indicated is proper.
- 5. A telephone call was made to Richard Gallagher on 2/9/04 to request an oral election to the above restriction requirement, but did not result in an election being made.
- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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CONCLUSION AND FUTURE CORRESPONDENCE

8. Claims 1-10, 13-16, 19, 20, 22, 23 and 25-28 are subject to restriction or election

requirement.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Abdel A. Mohamed whose telephone number is (703) 308-3966.

The examiner can normally be reached on Monday through Friday from 7:30 a.m. to 5:00 p.m.

The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christopher Low, can be reached on (703) 308-2923. The appropriate fax phone

number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0196.

CHRISTOPHER S. F. LOW SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600

My Mohamed/AAM

February 9, 2004